

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE  
(REV. 7-2005)

TRANSMITTAL LETTER TO THE UNITED STATES

DESIGNATED/ELECTED OFFICE (DO/EO/US)

ATTORNEY'S DOCKET NUMBER

8119-97327

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

NOT YET ASSIGNED

10/577782

INTERNATIONAL APPLICATION NO.  
PCT/IB2004/052227

INTERNATIONAL FILING DATE  
28 October 2004

PRIORITY DATE CLAIMED  
29 October 2003

TITLE OF INVENTION

PROCESSING OF METAL ALLOYS IN A SEMI-SOLID STATE

APPLICANT(S) FOR DO/EO/US

Hristov Lillian IVANCHEV and Daniel Jeremias WILKINS

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☐ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 23 below concern document(s) or information included:

13. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A power of attorney and/or change of address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
20. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22. ☒ Express Mail Label No. EV 843966835 US

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.53) <b>10/577782</b> <b>NOT YET ASSIGNED</b>	INTERNATIONAL APPLICATION NO. <b>PCT/IB2004/052227</b>	ATTORNEY'S DOCKET NUMBER <b>8119-97327</b>
23. Other items or information:		
The following fees have been submitted:		<b>CALCULATIONS      PTO USE</b>
24. <input checked="" type="checkbox"/> Basic national fee ..... \$300		\$ 300.00
25. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) ..... \$0 All other situations. .... \$200		\$ 200.00
26. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). . . \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority. .... \$100 International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB. .... \$400 All other situations. .... \$500		\$ 500.00
<b>TOTAL OF 24, 25 and 26 =</b>		\$ 1,000.00
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.		
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole)
- 100 =	0 /50 =	0
		x \$250.00
		\$ 0.00
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		
CLAIMS	NUMBER FILED	NUMBER EXTRA
Total claims	16 - 20 =	0
Independent claims	4 - 3 =	1
		x \$200.00
		\$ 200.00
MULTIPLE DEPENDENT CLAIMS (if applicable) <input type="checkbox"/> +		\$360.00
<b>TOTAL OF ABOVE CALCULATIONS =</b>		\$ 1,200.00
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.		
<b>SUBTOTAL =</b>		\$ 1,200.00
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		
<b>TOTAL NATIONAL FEE =</b>		\$ 1,200.00
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +		
<b>TOTAL FEES ENCLOSED =</b>		\$ 1,200.00
		Amount to be \$
		Amount to be \$

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

- a. ☒ A check in the amount of \$ \$1,200.00 to cover the above fees is enclosed. **10/577782**
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 23-0920. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Thopmas R. Vigil, Esq.  
WELSH & KATZ, LTD.  
120 South Riverside Plaza, Floor 22  
Chicago, IL 60606-3912

  
SIGNATURE

Thomas R. Vigil

NAME

24,542

REGISTRATION NUMBER

April 28, 2006

DATE

10/577782

IAP17 Rec'd PCT/PTO 28 APR 2006

PATENT APPLICATION – IVANCHEV ET AL.  
Title: PROCESSING OF METAL ALLOYS IN A SEMI-SOLID STATE  
ATTORNEY DOCKET NO. 8119-97327

**CERTIFICATE OF MAILING BY "EXPRESS MAIL"**  
**(37 CFR 2.198)**

**Express Mail No. EV 843966835 US**

I hereby certify that the following papers (identified below) are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 2.198 in an envelope addressed to: Mail Stop PCT, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on this 28<sup>th</sup> day of April, 2006.

Carl Stanley  
CARL STANLEY

Carl Stanley  
(Signature of Person Mailing Correspondence)

Enclosed:

- ☒ Certificate of Mailing (1 page);
- ☒ Transmittal Letter to the United States Designated/Elected Office Form PTO-1390 (3 pages, in duplicate);
- ☒ Data Sheets (4 pages);
- ☒ Preliminary Amendment (7 pages);
- ☒ Copy of Title Page of PCT WO 2005/042187;
- ☒ Information Disclosure Statement (2 pages);
- ☒ Information Disclosure Citation (Form PTO 1449) listing 1 U.S. Patent; 3 Foreign Patents; 1 Other and International Search Report PCT/IB2004/052227;
- ☒ One check in the amount of \$600.00; One check in the amount of \$400.00; One check in the amount of \$200.00;
- ☒ Addressed Postage Paid Receipt Postcard.